

# SOUTHEAST ALASKA

## 15129500 SITUK RIVER NEAR YAKUTAT

LOCATION.--Lat 59°35'00", long 139°29'31", in SE<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> sec. 9, T. 27 S., R. 35 E. (Yakutat C-4 quad.), Yakutat Borough, Hydrologic Unit 19010401, in Tongass National Forest, on left bank 20 ft downstream from Alsek Road bridge, 3.5 mi downstream from Situk Lake, 8.8 mi northeast of Yakutat, and 10 mi upstream from mouth.

DRAINAGE AREA.--36 mi<sup>2</sup>, approximately.

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level, by U.S. Forest Service.

REMARKS.--Records good, except for estimated daily discharges, which are poor. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft<sup>3</sup>/s and maximum(\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage Height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage Height (ft)
Oct. 04	1630	2210	70.65	Feb. 28	0030	1240	68.84
Dec. 03	0030	1040	68.35	Aug. 25	0600	1860	70.06
Dec. 23	1015	*3340	*72.33				

### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	434	575	325	330	930	253	213	166	86	119	397
2	1560	407	792	295	290	859	227	202	155	86	150	346
3	1740	570	884	275	266	814	210	192	146	84	225	304
4	1990	521	673	301	240	700	197	183	140	83	373	268
5	1710	458	531	374	e216	664	192	177	144	83	398	428
6	1170	400	431	351	e202	551	196	170	137	81	346	578
7	849	343	363	317	194	507	184	164	132	83	292	543
8	641	302	309	288	456	544	171	159	128	80	249	497
9	509	277	274	264	490	571	171	156	123	76	215	418
10	488	287	256	244	741	800	178	154	121	74	187	388
11	445	265	254	e225	553	681	165	152	119	73	164	360
12	389	246	629	e211	446	868	156	157	116	73	145	333
13	464	265	588	e200	370	733	150	164	113	74	130	332
14	466	258	480	e188	317	597	148	169	110	72	117	310
15	440	242	446	178	416	495	144	177	109	69	107	281
16	381	249	544	168	470	418	137	174	107	67	98	267
17	332	240	578	162	399	364	132	170	104	107	93	295
18	290	231	695	155	347	322	150	162	103	121	110	308
19	259	283	606	153	302	291	266	155	108	111	111	446
20	237	451	544	156	272	266	284	155	118	104	117	404
21	220	402	450	160	257	241	347	157	117	100	143	342
22	204	338	864	261	313	243	325	158	113	94	214	312
23	190	296	2910	287	431	250	295	152	107	85	203	320
24	209	302	2640	241	370	236	271	150	100	80	801	552
25	192	324	1740	221	410	222	255	149	96	80	1560	542
26	182	340	1070	203	527	212	246	175	92	80	1040	456
27	268	309	782	191	1010	256	238	201	89	91	713	435
28	372	451	644	201	1140	249	232	206	89	121	523	802
29	678	665	480	195	---	235	229	196	87	143	418	742
30	533	509	420	223	---	244	223	190	86	124	512	636
31	508	---	366	337	---	274	---	179	---	118	493	---
TOTAL	19166	10665	22818	7350	11775	14637	6372	5318	3475	2803	10366	12642
MEAN	618	356	736	237	421	472	212	172	116	90.4	334	421
MAX	1990	665	2910	374	1140	930	347	213	166	143	1560	802
MIN	182	231	254	153	194	212	132	149	86	67	93	267
AC-FT	38020	21150	45260	14580	23360	29030	12640	10550	6890	5560	20560	25080
CFSM	17.2	9.88	20.4	6.59	11.7	13.1	5.90	4.77	3.22	2.51	9.29	11.7
IN.	19.80	11.02	23.58	7.59	12.17	15.12	6.58	5.50	3.59	2.90	10.71	13.06

### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)#

	531	348	402	282	269	245	234	262	219	179	278	478
MEAN	531	348	402	282	269	245	234	262	219	179	278	478
MAX	878	598	739	620	545	516	370	418	345	292	612	838
(WY)	2000	1993	2000	2001	2004	1992	1998	1991	1991	1991	2002	1991
MIN	249	173	142	131	81.2	54.2	73.6	160	116	77.7	105	261
(WY)	2004	1999	1991	1996	1999	1989	2002	1996	2005	1993	1994	2003

# See Period of Record; partial year was used in monthly statistics  
e Estimated

# SOUTHEAST ALASKA

## 15129500 SITUK RIVER NEAR YAKUTAT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1989 - 2005#	
ANNUAL TOTAL	120827		127387			
ANNUAL MEAN	330		349		311	
HIGHEST ANNUAL MEAN					382	
LOWEST ANNUAL MEAN					230	
HIGHEST DAILY MEAN	2910		2910		2910	
LOWEST DAILY MEAN	a69	Dec 23	67	Dec 23	b47	Mar 5 1989
ANNUAL SEVEN-DAY MINIMUM	74	Aug 25	72	Jul 16	48	Mar 3 1989
MAXIMUM PEAK FLOW			3340	Dec 23	3840	
MAXIMUM PEAK STAGE			72.33	Jul 10	72.99	
INSTANTANEOUS LOW FLOW			65	Dec 23	c47	
ANNUAL RUNOFF (AC-FT)	239700		252700		225000	
ANNUAL RUNOFF (CFSM)	9.17		9.69		8.63	
ANNUAL RUNOFF (INCHES)	124.85		131.63		117.24	
10 PERCENT EXCEEDS	631		664		591	
50 PERCENT EXCEEDS	230		257		234	
90 PERCENT EXCEEDS	104		107		111	

# See Period of Record; partial year was used in monthly statistics  
a Aug. 24-26  
b Mar. 5-7 1989  
c Mar. 5-7, 1989 and Apr. 15 and 17, 2002